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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/649,969	08/28/2000	Lawrence Cary Gunn III	06618/692001/CIT-3277	8911	
20985	7590 07/22/2003		•		
	CHARDSON, PC		EXAMINER		
4350 LA JOLLA VILLAGE DRIVE SUITE 500 SAN DIEGO, CA 92122			NGUYEN,	NGUYEN, PHILLIP	
SAN DIEGO	J, CA 92122		ART UNIT	PAPER NUMBER	
			2828		
			DATE MAILED: 07/22/2003	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application N .	Applicant(s)				
,	09/649,969	GUNN III, LAWRENCE CARY				
Offic Action Summary	Examin r	Art Unit				
	Phillip Nguyen	2828				
The MAILING DATE of this communic	ation appears on the c ver sheet wi	th the c rrespondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC.  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communical in the period for reply specified above, it is set than thirty (30).  - If NO period for reply is specified above, the maximum statu.  - Failure to reply within the set or extended period for reply within the set or extended	ATION.  37 CFR 1.136(a). In no event, however, may a rication. days, a reply within the statutory minimum of third tory period will apply and will expire SIX (6) MON II, by statute, cause the application to become AE	eply be timely filed  by (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed	d on <u>15 April 2003</u> .					
2a)⊠ This action is <b>FINAL</b> . 2t	) This action is non-final.					
3) Since this application is in condition f closed in accordance with the practic						
Disposition of Claims	and to a to the annual tracking	0 0				
4) Claim(s) <u>1-3,5-10,12 and 16</u> is/are pe		Paul De				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	actod	SUPERVISORY PATENT EXAMINER				
, , ,	S) Claim(s) 1-3,5-10,12 and 16 is/are rejected.					
	) Claim(s) is/are objected to. ) Claim(s) are subject to restriction and/or election requirement.					
Application Papers	on and/or election requirement.					
9) The specification is objected to by the	Examiner.					
10) The drawing(s) filed on is/are: a	) accepted or b) objected to by t	he Examiner.				
Applicant may not request that any object						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
	the priority documents have been tional Bureau (PCT Rule 17.2(a)). for a list of the certified copies not	_				
14) ☐ Acknowledgment is made of a claim for	domestic priority under 35 U.S.C.	§ 119(e) (to a provisional application).				
<ul><li>a) ☐ The translation of the foreign lang</li><li>15)☐ Acknowledgment is made of a claim for</li></ul>	• .					
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO 3)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper</li> </ol>	D-948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .				
S. Patent and Trademark Office						

#### **DETAILED ACTION**

1. Applicant's arguments with respect to claims 1-3, 5-10, 12, and 16 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3, 5-10, 12, and 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 16 fail to define the structure of the core portion forming the resonator and the material that is used to make the cladding layer active so it can amplify optical energy in the core portion. The claim further fails to provide a laser structure that can use to introduce light into the core portion. The claim recites "the cladding layer configured to amplify optical energy that is in said core portion" so that one skilled in the art would be confused whether the core emits light itself or it receives light from outside and the cladding amplify optical energy from it.

Claim 8 recites "amplifying the light in the optical disk shaped resonator" which is indefinite and vague how to amplify light without any structure of amplifier or active materials.

· Application/Control Number: 09/649,969

Art Unit: 2828

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5-7, 9-10, 12, and 16 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Ho ('115).

With respect to claims 1, 2, 7, and 16, Ho discloses in Figure 5 a device comprising an optical disk-shaped resonator 52 formed of an core portion 68, and a cladding layer 56/62 surrounding said core portion. The cladding is made of active material, for example, InGaAsP, (col. 5, lines 13-25), said cladding layer "configured" to amplify optical energy that is in said core portion. Ho further discloses the device comprises a pump laser as a light source (col. 6, lines 58-60).

With respect to claims 5 and 6, Ho discloses said optically active material being made of semiconductor material and having Gallium Arsenide (InGaAsP).

Claims 8-10 and 12 further recite a method for amplifying light. Since Ho discloses the product, it is inherent product by process for performing a method as recited in the claim.

· Application/Control Number: 09/649,969 Page 4

Art Unit: 2828

## Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ho ('155) in view of Po ('117). Ho discloses the claimed invention except for the cladding material being an erbium-doped portion of material. Po discloses that the erbium is used as an active material in resonator to amplify the optical energy (col. 2, lines 43-49). For the improvement of the device, it would have been obvious to the one having ordinary skill in the art at the time the invention was made to provide an active material with erbium doped in order to amplify the optical energy as well known in the art taught by Po.

#### Citation of Pertinent References

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patent to Ho discloses Semiconductor Micro-Resonator Device, U.S. Patent No. 6009115

The patent to Po. Discloses Optical Waveguide Amplifier and Laser, U.S. Patent No. 4852117

Page 5

Art Unit: 2828

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Nguyen whose telephone number is 703-305-4966. The examiner can normally be reached on Monday to Friday from 8:30 AM to 5:30 PM

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip, can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are:

TC2800 Official Before-Final RightFAX - (703) 872-9318

TC2800 Official After-Final RightFAX - (703) 872-9319

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0658.

June 27, 2003

PN, AU 2828

PAUL IP SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

Paul DD